

AMENDMENTS TO THE SPECIFICATION:

Please amend the paragraph bridging pages 9-10 as follows:

--An important problem during FMLD production is optimization of pits' and grooves' filling technology in every data-carrying layer. Such optimization increases contrast (the ratio of signals from fluorescence centers in pits to background signal from the layer surface outside pits). This is described in US patent 6,071,671. For the prototype of this decision see proposal described in "Fluorescent Optical Memory," US regular application USSN 08/944402 filed on 6.10.97, based on provisional application USSN60/032521 assignment to OMD Ltd. Here the way of better volume filling of the data-carrying layer surface cavities with fluorescent composition is proposed, which results in a bigger fluorescent intensity difference between useful signal from fluorescence centers in surface cavities and background signal from the layer surface outside cavities. --.

Please amend the last paragraph on page 15 as follows:

-- See Fig. 9B for the FMLD drive scheme with dichroic mirrors 902. In contrast to the above-described drive, here the reflected 905 or fluorescent 906 signal from the optical disc is received by dichroic mirror 902, which reflects radiation at laser wavelength and transmits the radiation at fluorescence wavelength λ_{fl} . Then the fluorescent signal passes through a system of [[dihroic]] dichroic mirrors, which serve also as spectrum filters, and is received by a multi-segment photodetector 514. Depending on the disc type, the shutter 904, stopping the reflected radiation at laser wavelength, is either pushed back or forward. The disc type can also be recognized automatically following the above procedure.--.